Instruction Book

Troubleshooting

- If you are having a problem with your CA-S30BK, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	ACTION
No sound is heard.	Connections are incorrect, or loose.	Check all conections and make corrections. (See pages 3 and 4.)
Impossible to record.	Cassette record protect tabs are removed.	Cover holes on back edge of cassette with tape.
Hard to listen to broadcasts because of noise.	The antenna is disconnected.	Re-connect the antenna securely.
	The loop antenna is too close to the system.	Change the position and direction of the loop antenna.
	The feeder/wire antenna is not properly extended and positioned.	Extend feeder/wire antenna at the best reception position.
The CD sound is discontinuous.	The CD is scratched or dirty.	Clean or replace the CD.
Unable to operate the Remote.	The path between the Remote and the sensor on the Unit is blocked.	Remove the obstruction.
	The batteries are discharged.	Replace the batteries.
The CD tray cannot be operated.	The main AC power cord is not plugged in.	Plug in the AC power plug.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Operations are disabled.	The built in microprocessor may malfunction due to external electrical interference.	Unplug the system then plug it back in.
The cassette carrier cannot be opened.	The system was turned off because the timer was operated while the tape was running.	Turn On the system.

Specifications

Amplifier
Output Power (IEC 268-3/DIN)
25 watts per channel, min. RMS, both channels driven, into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Input Sensitivity/Impedance (1 kHz)
PHONO/AUX (selectable)

PHONO	3 mV/50 kohms
AUX	300mV/50 kohms
MIC	2 mV/10 kohms

Speaker terminals

Main speakers	6 ohms

Tape deck
Frequency response

CrO_2:	30 ~ 16,000 Hz
Normal:	30 ~ 15,000 Hz
Wow and Flutter	0.09% (WRMS) (0.2% DIN)

Tuner
FM Tuner

Tuning Range	87.5 ~ 108.0 MHz
Usable Sensitivity	0.95 µV/75 ohms (10.8 dBf)
Signal-to-Noise Ratio (IHF-A weighted)	MONO (at 85 dBf) 80 dB STEREO (at 85 dBf) 73 dB

AM Tuner

MW- Tuning Range	522 ~ 1,629 kHz
LW- Tuning Range	144 ~ 353 kHz
	144 ~ 290 kHz (Italy only)

Compact Disc Player

Dynamic Range (1 kHz)	90 dB
Signal-to-Noise Ratio	95 dB
Wow and Flutter	Unmeasurable

General

Power Requirements	230 V AC ~ 50 Hz
Power Consumption	110 Watts
Dimensions (Approx.)	245 x 265 x 344.5 mm (W/H/D) ($9^{3}/_{4}$ x $10^{1}/_{2}$ x $13^{9}/_{16}$ in.)
Weight (Approx.)	7.3 kg (16.1 lbs)

Supplied Accessories
FM wire antenna (only for Germany) (1)
FM feeder antenna (except for Germany) (1)
AM loop antenna (1)
Remote control (RM-SES30U) (1)
Batteries R03(UM-4)/AAA(24F) (2)
Antenna adaptor (except for Germany) (1)

Design and specifications subject to change without notice.

Features

Here are some of the things that make your CA-S30BK powerful and easy to use.

Great sound

❑ To get such great sound from such a compact package the CA-S30BK has:

- Pre-programmed live surround effects like **STADIUM, DANCE CLUB, HALL** as well as SEA effects like **BGM, CAR, H. PHONE** so you don't have to be a sound engineer to get great effects.

Easy operation

COMPU PLAY

❑ The controls and operations have been redesigned to make them very easy to use so you can spend your time listening to music.

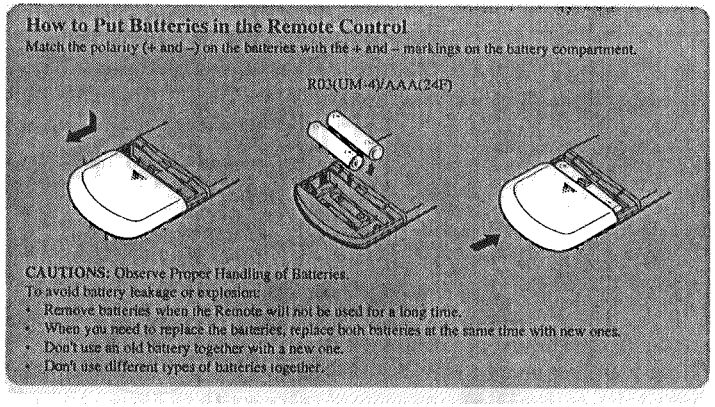
- With the One Touch Operation feature of JVC's new **COMPUPLAY** you can turn on the CA-S30BK and start the radio, the tape deck, or the CD player with a single touch.
- Four timers, **REC Timer, DAILY Timer, SLEEP Timer** and **AUTO POWER OFF** are extremely easy to set so you can really use them.
- **The Display** is large and clear. It's organized so you can tell at a glance what's happening because functions light up as you use them, and blink to tell you they are ready. It gives you some important messages like "NO DISC," "NO TAPE" and some others.
- **Auto Edit** figures out how to arrange CD tracks on a tape. When you are recording a tape from a CD, the selections aren't cut off if the tape ends before the selection does.

Sing along

❑ You can use conventional tapes and CDs for singing along with the voice canceller system. With an optional microphone, you can replace the lead singer's voice on your favourite songs with your own.

IMPORTANT CAUTIONS

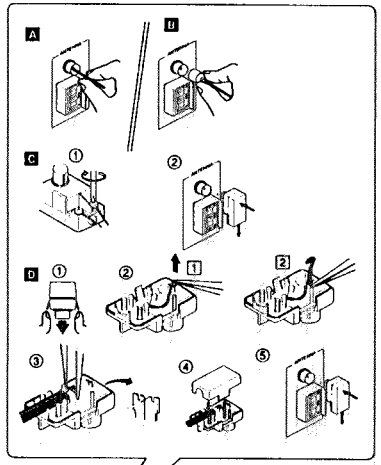
1. **Installation of the Unit**
   - Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C).
   - Leave sufficient distance between the Unit and your TV.
   - Do not use the Unit in a place subject to vibrations.
2. **Power cord**
   - Do not handle the power cord with wet hands!
   - When unplugging from the wall outlet, always pull the plug, not the power cord.
3. **Malfunctions, etc.**
   - There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
   - Do not insert any metallic object into the Unit.


How to Put Batteries in the Remote Control
Match the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.
R03(UM-4)/AAA(24F)
CAUTIONS: Observe Proper Handling of Batteries.
To avoid battery leakage or explosion:
• Remove batteries when the Remote will not be used for a long time.
• When you need to replace the batteries, replace both batteries at the same time with new ones.
• Don't use an old battery together with a new one.
• Don't use different types of batteries together.

Connection Diagrams and Instructions

Connecting the AM (MW/LW) and FM Antennas

FM Antenna Connections



For Germany

A Using the Supplied Wire Antenna
The FM wire antenna provided can be connected to a FM 75-ohm COAXIAL as a temporary measure.
Connect the Antenna Adaptor to the FM 75-ohm COAXIAL terminal.

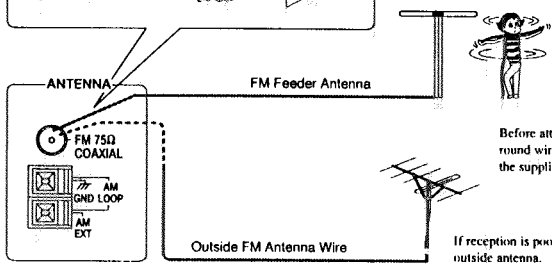
B Using the Coaxial Type Connector (Not Supplied)
A 75-ohm antenna with coaxial type connector (DIN 45332) should be connected to the FM 75-ohm COAXIAL terminal.

For Other Continental Europe

C Using the Supplied Feeder Antenna
① Attach the feeder antenna to the FM connector as shown in the figure.
② Connect the FM connector to the FM 75-ohm COAXIAL terminal.

D Using FM 75-ohm Antenna Cable (Not Supplied)
① Open the claws at both sides and remove the cover.
② Move the conductor wire from [1] to [2] using tweezers or similar tool (only when using coaxial cable).
③ Fix the coaxial cable and its core.
④ Put on the cover.
⑤ Connect the FM connector on the FM 75-ohm COAXIAL terminal.

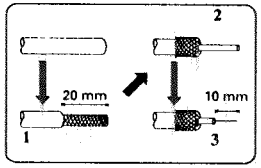
Note:
Make sure the antenna conductor do not touch any other terminals, connecting cords and power cord on the system.
This could cause poor reception.



For Germany
Extend the supplied wire antenna horizontally.
For other continental Europe
Unfold the loops of the supplied dipole FM feeder antenna and extend them as shown. Fasten them up in the position which gives you the best FM reception.

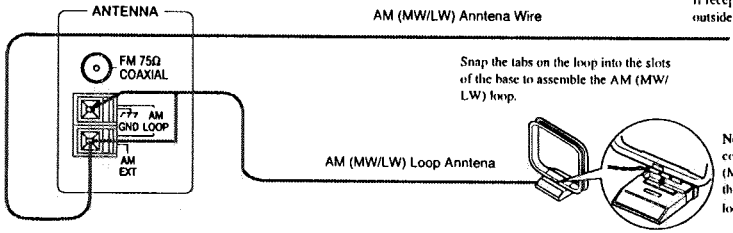
Before attaching a 75 ohm coaxial lead (the kind of round wire going to an outside antenna), disconnect the supplied dipole indoor antenna.

If reception is poor, connect the outside antenna.



How to Strip the 75-ohm Coaxial Cable
1. Strip back the outside covering of the 75 ohm coaxial cable to expose the braided metallic mesh.
2. Pull the mesh back and twist into a single connector as shown.
3. Strip the insulation about 10 mm back from the central wire.
4. Attach to the supplied Antenna Adaptor, as shown in the diagram above.

AM (MW/LW) Antenna Connections



If reception is poor, connect the outside antenna.

Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.

Note: Even when connecting an outside AM (MW/LW) antenna, keep the indoor AM (MW/LW) loop connected.

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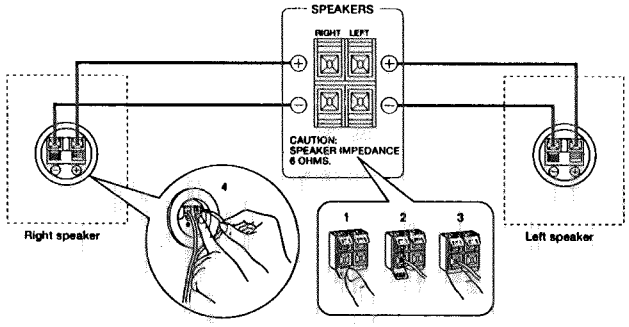
Connecting the Speakers



For each speaker connect one end of the speaker wire to the speaker terminals on the back of the CA-S30BK and one end to the speaker. On the back panel:

1. Open each terminal.
2. Insert the end of the speaker wire as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker wires firmly in place.
4. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the CA-S30BK.
   Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked LEFT on the CA-S30BK.

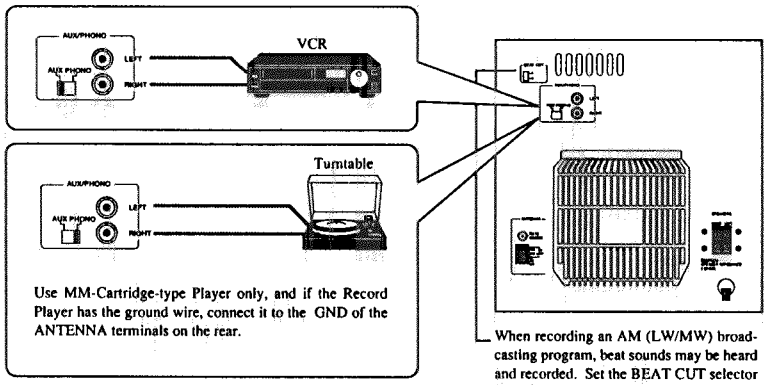
IMPORTANT: Match the polarity of the speaker terminals with the polarity of the terminals on the CA-S30BK, red (+) to red (+) and black (–) to black (–). Check your speakers for correct impedance: 6 ohms only.

Connecting Auxiliary Equipment

Set this selector to either PHONO or AUX. For a Record Player, set to PHONO; for others, set to AUX.
IMPORTANT
Make sure that the power is turned off before setting this selector.

VCR

Record Player



Use MM-Cartridge-type Player only, and if the Record Player has the ground wire, connect it to the GND of the ANTENNA terminals on the rear.

When recording an AM (LW/MW) broadcasting program, beat sounds may be heard and recorded. Set the BEAT CUT selector to either 1 or 2, so that beat sounds will not be heard or recorded.

Read Me First

How to get the most for your money by using this manual.

The Engineers at JVC have made the CA-S30BK very easy to use, and if you are experienced using audio equipment, you can figure out how to use some of the CA-S30BK controls by yourself. However, we have built some new features into this model, which you can learn about easily from the manual.

If you are a new user or just want a review, this manual explains how to use the CA-S30BK and take advantage of its features for playing and recording music, as well as other sounds. One way to use this manual is to read it through now and refer back to it when you need to refresh your skills for some special operation. Of course you can just look up the topics, such as recording a CD, that you want to do, but remember that you may need to refer to other parts of the manual for some of the instruction: for instance, in explaining how to record a CD, we assume you already know how to load a CD. That's why we recommend that you read the manual through once before starting. We've made it short, and easy to follow.

However before you proceed, please read the Cautions on page 2 and the set-up directions.

IMPORTANT!
Special features for a special Manual.

How This Manual Is Organized

We have incorporated some special features in this manual:

- A fold-out page to look at while you read the instructions shows the front controls of the CA-S30BK. Some procedures have the illustrations of which control to use right with them, and for some you will need to look at the fold-out for the illustration.
- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditioning, which are mentioned in the Common Operations section.
- Names of buttons, controls and function names that light up on the display panel are written in all Capital letters like this: POWER.
- When we are talking about the Function, rather than the BUTTON or DISPLAY, then we just capitalize the first letter of the words.
- The ☞ alerts you to important information or how to solve special problems that may occur when using the CA-S30BK.

The column on the left of the page is a special place to make it easier to find just what you want to know about, with little headlines announcing what each part of the page is about. Sometimes illustrations and helpful hints are placed here also.
Basically we use three kinds of information to help you understand and use the CA-S30BK:

- ❑ Information about what you can do (such as record a CD or preset a radio station) and how the Unit is designed to make doing this activity easy.
- ❑ Procedures, usually numbered in the order you do the steps, to guide you in exactly what to do to accomplish something, such as tune a radio station or record a tape.
- ❑ Information you need to know to make decisions about which functions of the CA-S30BK to use for particular tasks (such as when to use Dolby NR to improve tape sound) and special hints to make your work go smoothly, like reminding you to set the sound effects before starting the CD to tape recording, since they cannot be changed once recording begins without starting completely over.

The manual has a table of contents to help you easily look up what you want to know too.
We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your CA-S30BK.

Getting Started Right

Unpacking

Inside the packing box....

Of course you have already opened your CA-S30BK carton, since you are reading this manual. Although the Unit is quite sturdy, you may want to save the packing to re-pack your CA-S30BK in case you are moving it some distance. Check to be sure you have all of the following things, which are supplied with the CA-S30BK:

AM (MW/LW) Antenna

Remote Control

Batteries

FM Feeder Antenna (except for Germany)

Antenna Adaptor (except for Germany)

FM Wire Antenna (only for Germany)

If any are missing, contact your dealer immediately.

Location

Where can you put it?

You can place the CA-S30BK in many different kinds of locations to suit your needs; just observe the cautions on page 2: keep away from moisture and heat; leave some space between the Unit and its surroundings, more than 1 cm at the sides of the console and 10 cm at the back.

Set Up

Very little assembly required

You will need to do the following four things to get your CA-S30BK ready to use.

1. Connect the Antenna(s).
2. Connect the Speakers.
3. Put Batteries (included) in the Remote.
4. Connect other sound sources (VCR, Record Player) if used.

1. Connect the Antenna(s)

Please look at the diagrams on pages 3 and 4 to do these things.

Follow the diagrams on page 3. Here's what you need to know:

- ❑ For AM (MW/LW) reception you must connect the supplied loop antenna. If reception is poor, connect the outside antenna, but leave the loop antenna in place—the AM (MW/LW) will not work correctly without it.
- ❑ For FM reception, connect the supplied wire as shown. However, if you use an outdoor antenna, disconnect the indoor FM antenna first.
- ❑ To avoid noise, keep antennas away from metalic parts of the CA-S30BK, connecting cords and the AC power cord.

2. Connect the Speakers

Basically, you look at the diagrams on page 4 and follow the pictured instructions.

3. Put Batteries in the Remote

Pay close attention to getting the batteries in correctly—we've made it very easy, just match the + and – marks on the batteries with the + and – markings on the Remote. See page 2 for instructions

> **CAUTION:** Handle batteries with care. See page 2 for proper use of batteries.

4. Connect Other Sound Sources, such as VCR or Record Player (Optional)

You can play the sound portion of a TV program or video tape through your CA-S30BK's sound system, often improving it greatly. A VCR or Record Player can also be hooked up to play through the CA-S30BK. Just follow the diagram on page 4. In order to play a connected source through the CA-S30BK, you have to set the PHONO/AUX selector on the rear panel in place.

> **CAUTION:** DO NOT connect optical equipment while the power is ON.

Now you can plug the AC power cord into the wall socket, and your CA-S30BK is at your command!

> **CAUTION:** First make all connections before pluging the Unit into any AC power outlet.

Read on and find out how to use the many features built into your Unit.....

Common Operations

Here are the things that apply to all the functions of your CA-S30BK. If something in a procedure is unclear to you, check back here.

COMPUPLAY

The Magic of

COMPUPLAY is JVC's new feature that lets you control the most used functions of the CA-S30BK with a single touch. This One Touch Operation starts playing a CD, turns on the radio, plays a tape, etc. with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have called for. If the Unit is not ready, such as no CD or tape in place, the Unit still comes on and then gives you a message on the display so you can put in a CD or tape.
How One Touch Operation works in each case is explained in the respective section about that function.

Turning the CA-S30BK On

Press POWER; the stand-by indicator on POWER goes out.

- ❑ The CA-S30BK comes on ready to do whatever it was doing when the power was last shut off. So if the last thing you were doing was listening to a tape in deck B, you now are ready to listen to a tape again in deck B, or you can change to another source.
- ❑ If you were listening to the radio last, the radio comes on playing that last station.

Turning the CA-S30BK Off

Press POWER again; the stand-by indicator lights up and the display blanks, except for the clock display.

- ❑ A small amount of power (13 watts) is always consumed even though the power is turned off (called standby mode).
- ❑ To switch the power off completely, unplug the power cord.

Controlling the Sound

Making it sound the way *You* want it to:

The same set of buttons and knobs control the sound, no matter which function is producing it. Here we will briefly explain how these controls work, and how you can use them to increase your enjoyment of the music.

•Volume

Volume Control

Rotate clockwise to increase loudness, counter-clockwise to reduce loudness. Be sure to read the caution at the end of this section about high sound levels damaging your hearing or your equipment.

Sound Modes

The CA-S30BK has some preset sound effects that let you control of way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is try them yourself.
You can use only one effect at a time selecting from the LIVE SURROUND and SEA effects. Feel free to experiment!
To get an effect, press a preset button so that the indicator on the button lights up.
To cancel the effect, press the button again, or press another preset button to select another effect.

•STADIUM
•DANCE CLUB
•HALL

LIVE SURROUND effects
With these effects, the sound coming from only two speakers approaches the quality of sound from four speakers.
•STADIUM — Adds clarity and spreads the sound, like in an outdoor stadium.
•DANCE CLUB — Increase resonance and bass.
•HALL — Adds depth and brilliance to the sound, like in a concert hall.

BGM
CAR
H. PHONE

Preset SEA (Sound Effect Amplifier) effects
Adjustments of frequency range levels have been preset as three SEA effects.
BGM — Used as a background music.
CAR — Used for recording tapes to listen to in a car.
H. PHONE — Used for recording tapes to listen to with headphones.

> ☎ On the Remote, you can't find buttons for these preset sound effects. By pressing SOUND MODE on the Remote, you can cycle through the effects one after the other.

Things to remember about using preset effects:

- ❑ Set a preset effect before you start recording with REW/CD REC or Auto Edit, because once recording starts, the preset effect cannot be changed without stopping recording, and often having to start over. If you need different effects for each selection, use the standard recording features described on page 13, rather than REW/CD REC or Auto Edit.
- ❑ Each of the preset effects changes the sound in a different way by changing which parts of the sound are increased or reduced. To see how each part of the sound will be changed, watch the display just as you select an effect when music is playing. For a short while, the display shows the pattern of enhancement for that effect.

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Active BASS Effect

The richness and fullness of the sound is maintained regardless of how high or low you set the VOLUME control.
To get the effect, press ACTIVE BASS EX so that the indicator on the button lights up.
To cancel the effect, press the button again so that the indicator goes off.

Using the Tuner Entry Function

TUNER ENTRY

With Tuner Entry on, the Unit automatically shifts to the most recently played radio station when tape or CD play is over.
To get the function, press TUNER ENTRY so that "TUNER ENTRY" appears on the display.
To cancel the function, press the button again so that "TUNER ENTRY" disappears.

- ❑ In the following situations, even if Tuner Entry is on, it will not take effect:
  - When you intentionally stop the CD player or tape deck by pressing ■/CLEAR on the CD player or ■ on the tape deck.
  - After the CD player or tape deck stops playing while Auto Power Off (see page 18) is on.
  - When the tape deck is in Reverse Mode (see page 12).

Listening with Headphones

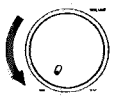
A pair of headphones can be connected to the PHONES jack on the front panel. **Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.**

The Display and the Indicators—Two Very Useful Hints

The Display and The Indicators

- ❑ The display tells you many useful things about what your Unit is doing. Watch it as you give instructions by pressing buttons. It also gives you some messages like "NO DISC," "NO TAPE," and some others to show you what to do next.
- ❑ Some of the controls have a small light, called an indicator, right next to or even right on the button or knob itself. The light comes on when the function is on, and goes off when it is not in use.

Caution: Too LOUD!



CAUTION: Always set the VOLUME control to MIN before turning on a connected source such as a VCR or turntable, or starting any other of the sound sources such as the radio, tape, or CD player. Otherwise, if the VOLUME control is turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

Listening to the Radio

You can listen to both AM (MW/LW) and FM.
- ❑ Before listening to the radio, check that both the AM (MW/LW) and FM antennas are firmly connected.
- ❑ To listen to the radio after CD or tape play, see "Using the Tuner Entry Function," above.

COMPU PLAY Radio

One Touch Radio

Just press AM (MW/LW) to turn on the Unit and start playing the most recent AM (MW/LW) station tuned in, or press FM to start the most recent FM station tuned in.

- ❑ You can switch from any other sound source to the radio by pressing either AM (MW/LW) or FM.

Tuning in a Station

Press AM or FM to turn on the radio. The display shows the station frequency tuned to.

Three ways to tune in a station

Three ways to select a station

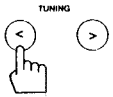
1. Press TUNING < or > repeatedly to move from frequency to frequency until you find the one you want.
   OR
2. Hold down TUNING < or >, the frequency starts changing on the display. When a station is tuned in, "TUNED" lights up on the display and the frequency stops changing.
   OR
3. Press once and release PRESET < or > to go to the next preset station, or hold PRESET < or > to cycle through the preset stations: release the button when the preset station you want shows on the display. (This method is possible only after presetting stations.)

You can also use the Remote to tune in stations and preset channels:
To tune preselected stations with the Remote:
1. Press FM or AM depending on which band you want.
2. Select the station by entering the preset channel number in the 10 key pad of the Remote.

Presetting Stations

How to preset AM and FM radio stations

Once a station is assigned to a channel number, the station can be quickly tuned either from the Remote using the 10 key pad of the Remote or the CA-S30BK itself using PRESET < or > to call up the channel number.
- ❑ You can preset 40 AM (MW/LW) and FM stations at random.
- ❑ Preset stations may be erased when power is cut off to the Unit, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the following procedure.



To preset radio stations

1. Tune in the station you want to set using TUNING < or >.
2. Press MEMORY.
   On the display "MEMORY" will blink for 8 seconds.
   - ❑ During these 8 seconds while "MEMORY" is blinking you can assign a channel number to the station and enter it into the memory.
3. Select a channel number by pressing PRESET < or > until you find the channel number you want.
4. Press MEMORY and the station will be assigned to the channel number showing on the display.
   - ❑ If a station has been previously stored using the same channel number, it will be erased and the newly selected station will be stored.

Receiving in Stereo or Mono

When an FM stereo broadcast is hard to receive or noisy:
- ❑ Press FM MODE/MUTE on the remote control so that reception improves, although you loose the stereo effect. In this state, you will hear noise while tuning into stations.
- ❑ To restore stereo effect, press FM MODE/MUTE again so that "AUTO" appears on the display. In this state, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. Furthermore, in this state, you won't hear noise while tuning into stations.

Listening to a Compact Disc

COMPU PLAY
Compact Disc Play

The quickest way to start a CD is with the One Touch Operation:
- ❑ Press ⊳/II on the CD player or ► on the Remote.
  - If a CD is already loaded, the Unit automatically turns on and starts to play it from track 1.
  - If no CD is loaded, the Unit automatically turns on and the CD tray opens. This is exactly the same as what happens if you press ≜ instead of ⊳/II.

Basics of Using the CD Player

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

How to use the CD player: from the most basic to advanced

To Play a CD

1. Press ≜.
2. Put a CD, printed side up, into the tray.
3. If you want to listen to the CD now, press ⊳/II (or ► on the Remote).
   The display shows the track being played and the length of time since it started.

To stop the CD, press ■/CLEAR (or ■ on the Remote). When you start again, the CD begins with track 1.

To pause the play, press ⊳/II while the CD is playing so when you press ⊳/II again (or ► on the Remote) the CD starts just where you left off.

To remove a CD, press ≜, take the CD out, and press ≜ again to close the tray. Keep the tray closed except during loading and unloading to protect the mechanism from dust and damage.

How to find a track

How to Find the Track or a Particular Point You Want

Each time you press briefly and release EDIT TIME I◄◄ or ►►I (I◄◄ or ►►I on the Remote) the track changes by one.
- ❑ Press and release EDIT TIME ►►I (or ►►I on the Remote) to go ahead one track at a time.
- ❑ Press and release EDIT TIME I◄◄ (or I◄◄ on the Remote) to go back one track at a time.
- ❑ Holding down EDIT TIME I◄◄ or ►►I will fast forward or fast reverse the CD so you can quickly find the particular part of a track you want to listen to. Fast forward and fast reverse are only possible by using the buttons on the Unit when the CD is playing.
- ❑ Holding down I◄◄ or ►►I on the Remote allows you to change the tracks continuously. (By using the buttons on the Unit, it is only possible when the CD is not playing.)

Using the Remote to find a track

Locating a Track with the Remote

Using the 10 key pad on the Remote allows you to go directly to the beginning of any track.
1. Press ►.
2. Enter the number of the track you want using the 10 key pad. The selected track will start to play.
   - Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10.

With programming, you can play back tracks in any order

Programming the Playing Order of the Tracks

In addition to the high quality sound which makes the CD such a good way to listen to music, you can change the order in which the tracks play.

Random Play

The tracks will play in no special order when you use this play mode.
Before starting a CD, press RANDOM on the CD player.
When all of the tracks have been played, the CD shuts off.
- ❑ Press REPEAT before or during random play to instruct the CA-S30BK to continue with a different random track selection after the last selection is played.

To cancel random play, press ■/CLEAR (or ■ on the Remote).

Program with the Remote

Programmed Play

You can arrange the tracks to play in any order you like with the Program function. The Remote is very useful for this because you can select tracks by number with the 10 key pad. See "How to Use the Remote Control," page 20, if you need more information about its use. You can also use the main Unit.

How to program: just 3 easy steps

To program the order of CD tracks using the Remote
1. Press PROGRAM.
2. Press CD 10 key.
3. Press the number of the first track you want to hear, then the number of the second track, and so on until you have entered all the track numbers you want to play.
   - ❑ Refer to the section "How to use the Remote Control" on page 20 if you have questions about how to enter numbers above 10.
   - ❑ Your program can include up to 32 tracks, and you can repeat tracks if you wish.
4. Press ► to start the program—the first track you programmed will start to play, followed by the next one you entered, until all the selected tracks are played.

To program the CD from the Unit
1. Press PROGRAM.
2. Press EDIT TIME I◄◄ or ►►I to locate the track you want to start with.
3. Press PROGRAM to store the selected track.
4. Repeat steps 2 and 3 until you have entered all the tracks you want to program.
5. Press ⊳/II and the Unit will begin playing the tracks in the order you programmed them.

To stop the CD during programmed play, press ■ on the Remote or ■/CLEAR on the Unit.

To cancel the program, press PROGRAM on the Remote or ■/CLEAR on the Unit while the CD is not playing.

Programming Hints

A few hints to make programming easier
- ❑ To add a track to your program, enter the track numbers with the 10 key pad. Any tracks you add will appear at the end of the current program.
- ❑ If you want to change the number of a track you just entered, press CANCEL on the Remote, and enter another number. (When the display shows the total program time, press CANCEL twice to remove the last selection entered.)
- ❑ If you want to change the entire program, press ■/CLEAR on the Unit while the CD is off, and then you can start over.
- ❑ To check the order of the tracks in your program in STOP mode, press I◄◄ or ►►I on the Remote to display the order of the tracks. Each time you press ►►I the next selection in your program is displayed. (Press I◄◄ for the previous selections.)

Repeat a selection or the whole CD

Repeating a Selection or the Entire Disc

You can have either the program or the individual selection currently playing repeat as many times as you like by pressing REPEAT.
Each time you press REPEAT, it cycles from function-off, which turns "REPEAT" out on the display, to "REPEAT" which will repeat all tracks in order or according to the program you have set, and then to "REPEAT 1" which will repeat the currently playing track.

To cancel repeat mode, press REPEAT until the "REPEAT" or "REPEAT 1" goes off on the display.

Listening to a Tape

Listen to a tape: How to use your tape deck

The tape deck allows you to play, record and dub audio tapes.
- ❑ Most of tapes are now recorded with the Dolby NR system, so first check which type of the Dolby NR system is used on the tape. Only the Dolby B NR is incorporated into the CA-S30BK.
- ❑ With Automatic Tape Type Detection, you can listen to type I, II, or IV tapes without changing any settings.
- ❑ To record or dub, see Recording on page 13.

COMPU PLAY

Playback Procedure

One Touch Play

By pressing either ⊳ or ◅ on either deck A or B (► or ◄ on the Remote), the power will come on, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for further instructions.

Regular Play

When the power is already on, you can use this basic procedure:
1. Press EJECT of the deck you want to use.
2. When the cassette carrier opens, put the cassette in, with the exposed part of the tape down toward the base of the CA-S30BK.
   - ❑ If the cassette carrier does not open, turn the Unit off, then back on again and press EJECT.
3. Close the carrier gently.
4. Press ⊳ to play the front side, or ◅ to play the reverse side. The arrow indicator on the pressed button starts blinking and tape play starts.

To stop playing, press ■.

To remove the tape, press EJECT.

Fast Left and Fast Right

- ❑ While the tape is stopped, press ◄◄ and the tape will wind rapidly onto the left side of the cassette without playing.
- ❑ While the tape is stopped, press ►► and the tape will wind rapidly onto the right side of the cassette without playing.

Finding the place you want: Music Scan

Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate tracks, then plays the next song.

- ❑ If you are recording on deck B or put deck B in recording pause mode, Music Scan will not work on deck A.

Scan Back

To find the beginning of the current song

Press ◄◄ or ►► during play.

- ❑ Make sure that you press ◄◄ or ►► in the opposite direction as tape play. Searching stops automatically at the beginning of the current song, and the current song starts automatically.

Scan Forward

To find the beginning of the next song

Press ◄◄ or ►► during play.

- ❑ Make sure that you press ◄◄ or ►► in the same direction to tape play. Searching stops automatically at the beginning of the next song, and the next song starts automatically.

☞ The Music Scan works by detecting a 4-second long blank at the beginning of each selection. So it won't work well if your tape has:

- No blank at the beginning of a track.
- Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
- Long very soft passages or pauses in a selection. The scan will detect these instead of the 4-second long blanks. If this happens, just go ahead and scan again until you reach the selection you want.

More Useful Things to Know:

- **Reverse Mode**
- **Continuous Play**
- **Dolby**

Useful Other Features Using the Tape Deck

- ❑ Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side. Press REVERSE MODE to change from Reverse Mode on (the indicator is lit) to Reverse Mode off, or from off, to on.
- ❑ **Continuous Play:** When a tape finishes playing, the Unit always checks to see if a tape is in the other deck. If one is there, it automatically starts playing it while rewinding the first tape. This Continuous Play happens regardless of which deck starts first.
  - With the Reverse Mode on, the other tape will start playing when both sides of the first tape have been played. As long as the REVERSE MODE indicator is lit, the tapes will continue to play in the above sequence.
  - With the Reverse Mode off, the tape will play to the end of the current side, switch to the other deck and start playing a tape there while rewinding the first tape. Then when one side of the tape in the other deck is over, the first deck starts playing the same side again. The tapes will continue to play in the above sequence.
- ❑ Press DOLBY B NR to switch **Dolby Noise Reduction** on (the indicator lights up) or off (the indicator goes off). If a tape is recorded with Dolby B NR, playing it back with the Dolby NR on will reduce tape noise and improve the clarity of the sound.

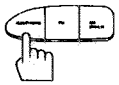
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Listening to an VCR or Optional Turntable

Advantages in Connecting a VCR or turntable

By playing the sound from a VCR or turntable through the CA-S30BK, you can often dramatically improve the quality, and gain control over how the music or program sounds. Once the connected equipment is playing through the CA-S30BK, you can apply the sound effects, make recordings, or listen with the headphones.

- ❑ First make sure that the connection between optional equipment and the CA-S30BK has been done correctly and that the setting of the input selector (AUX/PHONO) is correct on the rear panel.



1. Set the Unit's volume to MIN.
2. Press AUX on either the Remote or the Unit.
   "AUX" lights up on the display.
3. Start playing the connected equipment.
   The sound from the connected source is now played through the CA-S30BK.
4. Adjust the volume level.

To cancel the AUX setting

Change the source by starting any one of the CA-S30BK's built in sound sources, such as the radio or CD player.

Recording

What can you record?
- **Tapes**
- **Radio**
- **CDs**
- **Microphone**
- **Connected source**

Recording onto cassette tape from any of the sound sources is easy and the CA-S30BK does most of the work. Just have a tape in deck B, have the source ready, make one or two settings, and you're ready to record.

For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just go back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

Things to Know before You Start Recording:

Reduce hiss— Dolby NR

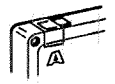
- ❑ Press DOLBY B NR — the indicator lights up — to reduce tape hiss, except when dubbing tapes since Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.

Recording level

- ❑ The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-S30BK. Thus, you can adjust the sound you are actually listening to without changing the recording.

Erasure protection

- ❑ Two small tabs on the back, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first. However, when a Type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.



Recording sound mode

- ❑ When recording, you can select the sound effects with the preset sound effect buttons to condition the music as it is recorded. But when recording using Auto Edit or CD Direct, once recording has started, these settings cannot be changed. When recording from tape deck A to deck B, the sound effects cannot be used, because the signal doesn't go through the amplifier first. This method gives you the highest quality dubbed tapes.

Usable tape type

- ❑ Type I and type II tapes can be used for recording. While type IV tapes can be played, type IV tapes cannot be used for recording on the CA-S30BK.

CAUTION: If recordings you make have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-S30BK.

Standard recording: Any source to tape

Standard Recording

This is the basic method for recording any source. The CA-S30BK also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects.
However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method we describe here; just substitute the source you want, such as a tape in deck A, or CD, or radio in this procedure. You can also record from the microphone or an auxiliary source with this procedure.

Source to tape: Step by step

To Record Any Sound Source to Tape

Follow these steps to record from any sound source onto a tape in deck B.

1. Insert a blank or erasable tape into deck B.
2. Press REC PAUSE.
   The REC PAUSE indicator lights up.
3. Press REVERSE MODE if you want to record on both sides of the tape.
   The REVERSE MODE indicator lights up.
4. Prepare the source, for example, tuning in a radio station, loading a CD, turning on a connected VCR or turntable.
5. Press either ▷ to record on side A, or ◁ to record on side B of the tape, on deck B.

CD to tape recording: Introduction

CD to Tape Recording

There are three ways to record from CD to tape:

- ❑ **Standard Recording** described on the previous page.
- ❑ **CD Direct Recording** — Everything on the CD goes onto the tape in the order it is on the CD, or according to an order you have set in a program.
- ❑ **Auto Edit Recording** — Your CA-S30BK figures out which selections to put on which side of the tape, so a selection isn't cut off before it's finished when the tape runs out.

REW/CD Recording Step by step

REW/CD Recording

1. Insert a blank or erasable cassette in deck B.
   - ❑ If you want to record on both sides of the tape, press REVERSE MODE on the tape deck so that the REVERSE MODE indicator lights up.
2. Load a CD into the tray and press ≜ to close the tray.
3. Set the sound mode if you want, since the sound mode cannot be changed once recording starts.
4. **To record on the tape from its beginning,** press REW/CD REC on the CD player.
   The Unit will automatically rewind the tape to the beginning of side A, create a 10 second blank, turn on the CD and start recording.
   To record on the tape from any portion of tape rather than its beginning, press CD REC START on the CD player.
   Without rewinding the tape and creating a 10 second blank, the Unit turns on the CD and starts recording.
   - ❑ The CD REC START button is convenient for recording from many CDs.

   At the end of the tape, the CA-S30BK automatically goes back to the beginning of the last selection and re-records it, this time gently fading out at the end. If you selected the Reverse Mode, side B starts with the last selection on side A. (A 10 second blank is also created on the beginning of side B.)
   When the tape is finished, the Unit shuts off the CD and the tape deck.

To stop any time during the recording process
Press ■ on deck B.
In case of any operation during CD Recording, please use buttons on the Unit. (Don't press ones on the Remote Control.)

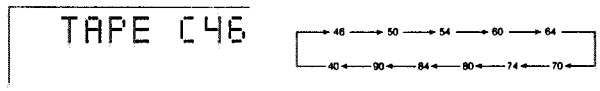
Auto Edit Recording: Introduction

Auto Edit Recording

Using Auto Edit, you can record the CD tracks to fit the tape, so a selection isn't cut off. Auto Edit is one of the best ways to copy all of a CD onto a tape.
Auto Edit programs the CD tracks in the numerical order. To prevent the end of the last track on side A from being cut off, the last track on side A is selected to fit on the remaining tape length.

Auto Edit Recording: Step by step

1. Insert a blank or erasable cassette in deck B.
   - ❑ If you want to record on both sides of the tape, press REVERSE MODE on the tape deck so that the REVERSE MODE indicator lights up.
2. Load a CD into the tray and press ≜ to close the tray.
3. Set the sound mode if you want, since the sound mode cannot be changed once recording starts.
4. Press AUTO EDIT on the CD player.
   "EDIT" appears on the display and then the minimum standard tape length to use for this CD appears.
   - ❑ You can select a different length of tape, depending on the actual size of the tape you are using, from ten possibilities programmed into the CA-S30BK: 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, 90. Cycle through these choices using EDIT TIME |◄◄ or ►►| (|◄◄ or ►►| on the Remote) until you find the length closest to your tape's actual length.
     - If you pick a tape length shorter than the total playing time of the CD, the last tracks on both sides of the tape will be faded out as the tape ends.



5. Press SIDE A/B.
   The display shows which tracks will go on side A and which on side B. Each time you press SIDE A/B, the display switches between A and B.
6. Press REW/CD REC on the CD player.
   The Unit will automatically rewind the tape to the beginning of side A, create a 10 second blank, turn on the CD and start recording. (A 10 second blank is also created on the beginning of side B.)

To stop any time during the recording process
Press ■ on deck B.

Tape to tape dubbing: Introduction

Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.
You can dub at regular speed for the best possible quality, or with a slight loss in sound quality you can dub at high speed. With high speed it takes only about half the time to copy a tape.

- ❑ To dub both sides of a tape, start from side A for both deck A and deck B, and press REVERSE MODE so that the REVERSE MODE indicator lights up.
- ❑ It is preferable that the type of tape (Normal or CrO_2) you record *from* be the same as the type you record *onto*.

Regular speed dubbing: Step by step

Regular Speed Dubbing

1. Insert a source cassette you want to copy *from* into deck A for playback.
2. Insert a bank or erasable cassette you want to copy *onto* into deck B for recording.
3. Press REC PAUSE on deck B.
4. Press ▷ (or ◁) on deck B.
   Recording starts.
   - ❑ To advance the leader tape, start recording first and wait about 10 seconds before starting the deck A.
5. Press ▷ (or ◁) on deck A.
   Deck A starts playing.

To stop any time during the dubbing process
Press ■ on both deck A and deck B.

High speed dubbing: Step by step

High Speed Dubbing

Although the quality of the dubbed tape is a little less, high speed dubbing is a very convenient way to record from one tape to another.

1. Insert a source cassette you want to copy *from* into deck A, and a blank or erasable cassette to be copied *onto* in deck B.
2. For each deck, select the side (A or B) to start with.
   To change the side, press ◁ or ▷ and then quickly press ■ on the same deck.
   - ❑ The tape will travel in the direction of the lit arrow indicator on the ◁ or ▷ button for each deck.
3. Press HIGH SPEED DUBBING on the tape deck.
   Both decks start, deck A playing and deck B recording.

To stop any time during the dubbing process
Press ■ on deck B.

To record selections from several different tapes during high speed dubbing
When you want to take selections from several different tapes and combine them on one tape during high speed dubbing, follow these steps:

1. Press ■ on deck A.
   - ❑ This causes deck A to stop, so you can change tapes, and deck B makes a 4 second blank and pauses.
     - If you don't want to make a 4 second blank, press REC PAUSE before pressing ■ on deck A
2. Change the tape in deck A.
3. Press HIGH SPEED DUBBING to start deck A playing and deck B recording again.
   - ❑ The sound you hear is strange because it is much faster than usual, and you may not want to listen to it. Turn it down with the VOLUME control, or press FADE MUTING on the Remote.
   - ❑ You can also listen to another source such as the radio or the CD player, just as if you weren't dubbing.

☞ Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
☞ You cannot dub using the sound modes such as STADIUM, DANCE CLUB, HALL, etc.
☞ During high speed dubbing, if you listen to a CD with Auto Power Off turned on, the whole Unit, including the tape decks, may turn off when the CD ends. It will interupt the dubbing.

How to Set the Clock and Use the Timers

Four Timers:
•REC
•DAILY
•SLEEP
•AUTO POWER OFF

The timers let you control recording and playing functions automatically. With the CA-S30BK they are particularly easy to set and use. Four types of timers are available:

- ❑ **REC (Recording) Timer**—unattended recording of radio broadcasts. You can set the starting time and recording duration.
- ❑ **DAILY Timer**—Wake up to music from any source.
- ❑ **SLEEP Timer**—Fall asleep and have your CA-S30BK turn off automatically after a certain length of time.
- ❑ **AUTO POWER OFF**—Automatically turns off the Unit when the CD or tape finishes.

IMPORTANT! Set your clock!

Clock Setting

The timers depend on the clock: If the clock is right, the timers will work like you expect, but if the time is incorrect on the clock then the timers will also be incorrect.

Notice: The clock must be set, or the timers cannot be set!

So, let's set the clock first.

1. Press CLOCK ADJUST.
2. Set the hour by pressing HOUR.
   Each time you press it, the hour advances by one. Hold the button down, and the clock will advance continuously as long as HOUR is held down.
3. Set the minutes by pressing MINUTE.
   Each time you press MINUTE the minutes advance by one. Hold the button down, and the minutes advance in ten minute increments as long as MINUTE is held down.
4. Press CLOCK ADJUST again and the clock is set and starts from zero seconds.

☞ If there is a power failure, the clock loses its setting, the display shows "0:00", and it must be reset.

Recording when you're not there

Setting the REC (Recording) Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are there. For the timer to work correctly, you need to make sure of the following in addition to setting the time for the radio and tape recorder to come on:

- ❑ You can set the Recording Timer whether the Unit is on or off.
- ❑ The tape you want to record onto must be in deck B.
- ❑ The radio station whose program you want to tape must be the last one played before timer comes on.

Follow this procedure to set the Recording Timer

1. Press REC so that "REC TIMER" blinks on the display. As long as it is blinking, you can continue with the setting process.
   - ❑ If you wait too long, and it stops before you are done, just press REC twice and start over.
2. Set the time you want the radio to come on and the tape in deck B to start recording.
   - ❑ Press HOUR to set the hour and MINUTE to set the minute.
3. Press REC TIME/SOURCE to set the length of time for the recording.
   - ❑ Each time you press this button, the duration increases by one minute. If you hold the button down, it will advance in ten minute increments up to 120 minutes, which is the maximum time you can set.
   - ❑ At the end of the set length of time the radio and deck B will shut off.
     - If you set no time, but leave the display showing —:—, the CA-S30BK will not shut off, but keep playing until you shut it off.
4. Press REC again, or wait eight seconds. "TIMER OK" appears for a while, then "REC TIMER" lights up on the display.
   The Unit will memorize the setting. When the set time comes, the CA-S30BK turns on and records the last station tuned when the Unit was last turned off.
   - ❑ If you press any button while the Recording Timer is being activated, the recording will stop.

Before the set time comes

- ❑ Check that tape direction is correct. This is important especially when Reverse Mode is off.
- ❑ Set Reverse Mode on if you want to record on both sides of the tape.
- ❑ Select the sound mode if you want to record with one of the sound mode (STADIUM, DANCE CLUB, HALL, etc.).
- ❑ Set the VOLUME control to MIN so that no sound comes out from speakers when the recording timer switches on the CA-S30BK. This is important especially if you will be out during the recording.

To change the Recording Timer setting
Press REC twice ("REC TIMER" reappears) and make any changes you want.

To cancel the Recording Timer setting
Press REC button again so that "REC TIMER" goes off on the display.

Wake up to music with the DAILY Timer

Setting the DAILY Timer

With this timer you can wake up to music from a CD, tape or your favourite radio program.

- ❑ You can set the DAILY Timer whether the Unit is on or off.

Follow this procedure to set the DAILY Timer

1. Press DAILY so that "DAILY TIMER" blinks on the display.
2. Set the time you want the Unit to turn on.
   - ❑ Press HOUR to set the hour and MINUTE to set the minute.
3. Press REC TIME/SOURCE to set the source.
   - ❑ Each time you press this button, the display shows one of the four possible sources: CD, TAPE, FM or AM. Leave the one you want lit.
     - If you select AM or FM as the source, the last played station is the one which comes on at the set time.
     - If the CD is the source, you can designate the starting track up to the 99th track by using EDIT TIME I◄◄ or ►►I (I◄◄ or ►►I on the Remote).
4. Press DAILY again, or wait eight seconds. "TIMER OK" appears for a while, then "DAILY TIMER" lights up on the display.
   The Unit will memorize the setting.
   When the set time comes, the CA-S30BK turns on ("DAILY" appears on the display), plays the source you have selected for 60 minutes, and then the Unit turns off.
   - ❑ If you press any button while the DAILY Timer is being activated, the Unit will not turn off automatically after 60 minutes.

Before turning off the Unit

- ❑ If the source is tape:
  - Check that the tape transport direction is correct. This is important especially when Reverse Mode is off.
  - Deck A has priority, so if tapes are in both deck, the tape in deck A plays first.
  - Set Reverse Mode on if you want play both sides of the tape.
- ❑ Select the sound mode if you want to listen using a sound mode (STADIUM, DANCE CLUB, HALL, etc.).
- ❑ Set the volume to an appropriate level.

To change the DAILY Timer setting
Press DAILY twice ("DAILY" reappears) and make any changes you want.

To cancel the DAILY Timer setting
Press DAILY button again so that "DAILY TIMER" goes off on the display.

Sleep Timer: turns the Unit off automatically after a set time

Setting the SLEEP Timer

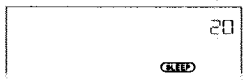
Use the SLEEP timer to turn the Unit off after a certain number of minutes when it is playing. Using this timer, you can fall asleep to music.

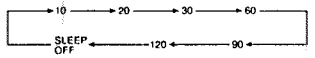
- ❑ You can only set the SLEEP Timer when the CA-S30BK is on and a source is playing.

Follow this procedure to set the SLEEP Timer

With the CA-S30BK on and a source playing, press SLEEP. "SLEEP" starts blinking on the display.

- ❑ Each time you press SLEEP while "SLEEP" is blinking, it changes the number of minutes shown on the display in this sequence:





When the number of minutes you want shows on the display, just wait 8 seconds until "TIMER OK" appears and "SLEEP" stops blinking, but remains lit.
The Unit will now turn off after the number of minutes you set.

To change the SLEEP Timer setting
Press SLEEP until the number of minutes you want appears on the display.

To cancel the SLEEP Timer setting
Press SLEEP until "SLEEP" goes off on the display.
Turning off the Unit also cancels the SLEEP Timer.

Timer Priority

Since each timer can be set independently, you may have wondered what happens if the settings overlap: for instance, suppose you set the Recording Timer to record a broadcast from 1 am to 1:30 am, and then you set the sleep timer at midnight to run until 2 am. Will you still get your radio program recorded? Here are the priorities for each timer:

- ❑ The Recording Timer always has priority. This means that:
  - If another timer is set to come on during a time the Recording Timer is operating, the other timer just won't come on at all, so you will always get the entire program on tape.
  - If the Recording Timer is set to come on while another timer is being activated, the other timer will shut off 10 seconds before the Recording Timer is set to turn on, and the Recording Timer will then take over.
- ❑ The SLEEP Timer has priority over the DAILY Timer. This is important because if you set the SLEEP Timer to start before and then end after the DAILY Timer would start, the DAILY Timer doesn't come on. So if you want your alarm to go off as scheduled, be sure the SLEEP Timer shuts off before the DAILY Timer is to turn on the Unit.

Auto Power Off: turns off your CA-S30BK automatically

Turning Off the CA-S30BK Automatically

When playing either a tape or a CD, Auto Power Off will shut the Unit off when the tape or CD comes to the end. Although Auto Power Off is very useful for shutting off the CA-S30BK at night, you can also use it if you think you might forget to turn the Unit off when leaving the house or your room at other times of day.

To use Auto Power Off:
Press AUTO POWER OFF so that "AUTO POWER OFF" lights up on the display.

To cancel Auto Power Off:
Press AUTO POWER OFF again so that "AUTO POWER OFF" disappears on the display.

Important information on using Auto Power Off

- ❑ Even if the Tuner Entry function is on, Auto Power Off will not switch at the end of the CD or tape to the radio as is usual with Tuner Entry on. Instead, Auto Power Off shuts everything off.
- ❑ If you press AUTO POWER OFF while the CD is playing in repeat mode ("REPEAT" or "REPEAT 1" lights on the display), repeat mode will be canceled and Auto Power Off will be able to work.
- ❑ If you press REPEAT to set the CD player in repeat mode while Auto Power Off is on ("AUTO POWER OFF" lights on the display), Auto Power Off will be canceled even though "AUTO POWER OFF" remains lit on the display.
- ❑ If you press AUTO POWER OFF while the tape is playing:
  - If Reverse Mode is off (the REVERSE MODE indicator is not lit), the Unit turns off when the current playing side finishes
  - If Reverse Mode is on (the REVERSE MODE indicator lights up), the Unit plays the side currently playing, reverses and plays the other side, then shuts off.

Singing Along

What is Vocal Masking?

Have you ever wished you could sing with a real band, in place of the lead singer? The VOCAL MASKING (voice canceller) button lets you use regular tapes, CDs or records as sources of sing-along music. When you press VOCAL MASKING, the lead vocal is reduced, and you can replace it by singing into the microphone as the music plays. No microphone is supplied with the CA-S30BK, so you can select your own from the many kinds available. Remember: the sound quality is greatly affected by the quality of the microphone.

How to Sing Along with Vocal Masking:

Singing-Along Procedure

1. Turn the MIC LEVEL control all the way counterclockwise to the MIN position.
2. Attach the microphone (not supplied) by plugging it into the MIC jack.
3. Start the source—CD, Tape, connected VTR, Turntable.
4. Press VOCAL MASKING—the indicator will light up.
5. Now adjust the volume of the source with the main VOLUME control, and the volume of your voice with the MIC LEVEL control as you sing into the microphone.

Recording Your Singing-Along

Recording a Singing- Along Session

You can record a singing-along session under certain conditions.

- ❑ You cannot record your singing-along when the main source is a tape in deck A.

Here's the procedure for recording your singing-along:

1. Put the cassette you want to record onto in deck B.
2. Press REC PAUSE—see Recording, page 13 if you need more information about tape recording.
3. Follow the above procedure "How to Sing Along with Vocal Masking."
4. Press Play Forward ▷ (or Play Reverse ◁) on deck B, and deck B will start recording the source together with your voice in place of the lead vocal.

Important information about Vocal Masking

- ❑ Because the radio signal is not as reliable as signals coming from a tape or CD, you may not always get satisfactory results using the radio as a source for Vocal Masking.
- ❑ Some tapes and CDs are better sources for singing along than others.
  - Mono sources are not suitable for Vocal Masking.
  - On sources with duets, strong echoes, a chorus, or with only a few instruments, the singer's voice may not be completely reduced.
  - Poorly dubbed tapes may not work well for Vocal Masking.

Recording from the Microphone

Two ways of recording with the microphone

You can use the microphone for two kinds of recording:

- ❑ Microphone mixing—Sound going into the microphone is mixed with sound sent to the tape in deck B from some other source, such as the CD, or radio.
- ❑ Regular recording—Only sound picked up by the microphone is recorded.

Microphone Mixing

1. Insert a blank or erasable cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Press REC PAUSE so that the REC PAUSE indicator lights up.
4. Start the source (radio, CD, VCR or turntable) and set the VOLUME control.
5. Adjust the microphone volume with the MIC LEVEL control.
6. Press ▷ (or ◁) on deck B, and speak or sing into the microphone.
   Both sound from the microphone and from the playing source is recorded.

Regular Microphone Recording

1. Insert a blank or erasable cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Press REC PAUSE so that the REC PAUSE indicator lights up.
4. Press ▷/❚❚ on the CD player and then press ■/CLEAR to stop the CD player.
5. Adjust the volume of the microphone with the MIC LEVEL control.
6. Press ▷ (or ◁) on deck B
   Whatever sounds the microphone picks up are recorded.

IMPORTANT!

- To prevent howling and squealing when using the microphone, adjust the MIC LEVEL control and the VOLUME control, and try not to point the microphone at the speakers.
- When you are not using the microphone, keep the MIC LEVEL control set to MIN. It is best to disconnect the microphone when you will not be using it.

How to Use the Remote Control

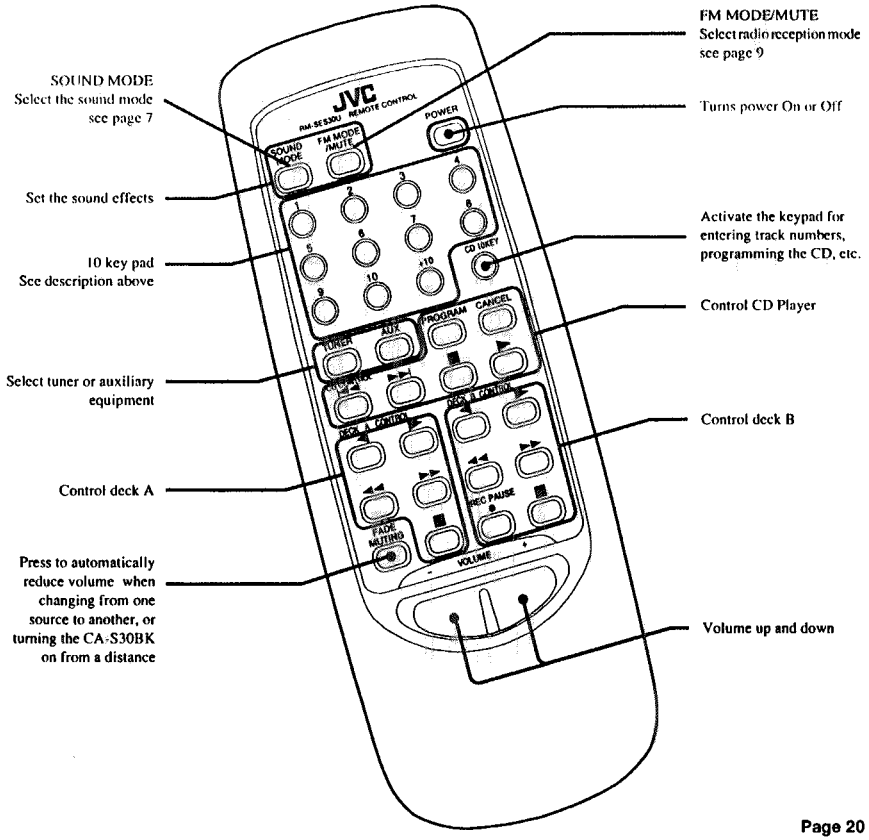
The Remote Control makes it easy to control many of the functions of the CA-S30BK from a distance of up to 6 m away. You need to point the remote sensor at the CA-S30BK front panel.

- ❑ Most of the buttons on the Remote Control do just what the ones on the CA-S30BK do.
- ❑ A few functions are available only by using the Remote Control, and those are described below.
- ❑ The buttons whose names or marks are printed in blue can be used for the One Touch Operation.

Using the 10 Key Pad

The 10 key pad is used to specify a CD track or the number you have assigned to a preset radio station. To enter a number using the 10 key pad follow these steps:

- ❑ Before using the 10 key pad, make sure which the 10 key pad functions for, the CD player or tuner. This is depends on which button on the Remote you have pressed before 10 key pad. For example, if you press AM or FM before 10 key pad, it can select a preset station. If you press ► for the CD player, it can select a CD track.
- ❑ For numbers between 1 and 10, just press the button with the number you want.
- ❑ For numbers from 11 to 20, first press the +10 key, then the one's digit of the number you want — to get 15, first press +10, then 5. For 20 press +10 and 10 .
- ❑ For numbers from 21 to 30, press the +10 key twice; then press the one's digit — to get 25, press +10 +10 and 5 . For 30, press +10 +10 and 10
- ❑ For numbers from 31 to 40, follow the same procedure, only press the +10 key three times, then the one's digit — to get 32, press +10 +10 +10 and 2.

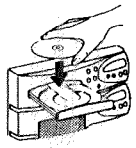


Care and Maintenance—General Notes

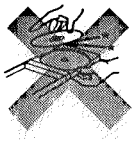
Compact Discs

Handle your compact discs, cassette tapes, and tape deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.



- Place the CD into the open tray with the label facing up.



- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean a CD.

On Moisture Condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heating in the room.
- In a damp room.
- If the unit is brought directly from a cold to a warm place.

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.

- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the tape deck tape carriers and the CD tray closed when not in use.

Cassette Tapes

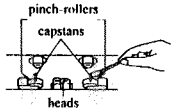
- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

Tape Deck

- If the heads, capstans, and pinch-rollers of the tape deck become dirty, the following will occur:
  - Impaired sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



- If the heads become magnetized, it will produce noise or loose high frequencies.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).